Dibyadip Chatterjee

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🏠 Website   🔗 LinkedIn   ⭘ GitHub   🎓 Scholar

RESEARCH INTERESTS

- Large vision-language models for semantic understanding of videos.
- Test-Time Adaptation of vision-language models.
- Video generation models as world simulators.

EDUCATION

National University of Singapore   Singapore
Ph.D. in Computer Science   August 2023 − *Present*
GPA: 4.67/5.00
Advisor: Angela Yao
🏆 **President's Graduate Fellowship**

Jadavpur University   Kolkata, India
B.E. in Electronics and Telecommunication Engineering (ECE)   July 2016 − June 2020
GPA: 9.2/10.0 (*First Class with Honours*)
Advisor: Ananda S. Chowdhury
Thesis: Open-set Metric Learning for Person Re-identification in the Wild [6]

EXPERIENCE

Meta Reality Labs   Zürich, Switzerland
Research Scientist Intern   June 2024 − Dec 2024
Manager: Fadime Sener
Project: Streaming Video Large Language Models for Procedural Understanding [1]

National University of Singapore   Singapore
Research Assistant   August 2020 − July 2023
Advisor: Angela Yao
Projects: Assembly101 [4], Opening the Vocabulary of Egocentric Actions [3]

Samsung Research   Bangalore, India
Research Intern   May 2019 − July 2019
Manager: Satya Kumar Vankayala
Project: Deep Learning Architectures for Modeling Communication Systems [7]

PUBLICATIONS

[1] **Dibyadip Chatterjee**, Edoardo Remelli, Yale Song, Buğra Tekin, Abhay Mittal, Bharat Bhatnagar, Necati Camgöz, Shreyas Hampali, Eric Sauser, Shugao Ma, Angela Yao and Fadime Sener. "Streaming Video Large Language Models for Procedural Understanding". (*under submission*)

[2] Md Salman Shamil, **Dibyadip Chatterjee**, Fadime Sener, Shugao Ma and Angela Yao. "On the Utility of 3D Hand Poses for Action Recognition". In *ECCV 2024*

[3] **Dibyadip Chatterjee**, Fadime Sener, Shugao Ma and Angela Yao. "Opening the Vocabulary of Egocentric Actions". In *NeurIPS 2023*

[4] Fadime Sener, **Dibyadip Chatterjee**, Daniel Shelepov, Kun He, Dipika Singhania, Robert Wang and Angela Yao. "Assembly101: A Large-Scale Multi-View Video Dataset for Understanding Procedural Activities". In *CVPR 2022*

[5] Fadime Sener, **Dibyadip Chatterjee** and Angela Yao. "Technical report: Temporal aggregate representations". In *arXiv preprint 2021*

[6] Arindam Sikdar, **Dibyadip Chatterjee**, Arpan Bhowmik and Ananda S Chowdhury. "Open-set metric learning for person re-identification in the wild". In *ICIP 2020*

[7] **Dibyadip Chatterjee**, Harsh Jaiswal, Adarsh Honakamble and Konchady G. Shenoy. "Deep Learning Architectures for Modeling Communication Systems". In *IEEE ANTS 2019* **(Oral)**

TEACHING

Teaching Assistant:

- **Computer Vision and Pattern Recognition (CS4243)**   Fall 2021, Winter 2024
  School of Computing, National University of Singapore
  Lecturer: Angela Yao

- **Feature Engineering for Machine Learning (BT3017)**   Winter 2024
  School of Computing, National University of Singapore
  Lecturer: NG Teck Khim

ACADEMIC SERVICES

Member of Student Area Search Committee, School of Computing   January 2025 - *Present*
2025 Faculty Recruitment for the Department of Computer Science

Workshops:

- Co-organized HBHA Workshop in conjunction with ECCV 2022   Tel Aviv-Yafo, Israel

Reviewer: CVPR′(23-25), ECCV′(22-24), ICCV′23, AAAI′24, BMVC′21, TPAMI, IJCV

HONORS AND AWARDS

EgoVis 2022/2023 Distinguished Paper Winner, CVPR 2024   2024
Awarded to only 10 papers in the field of egocentric vision for the years 2022–23.

President's Graduate Fellowship (PGF), National University of Singapore   2023
A small number of PhD research candidates are selected each semester by the University for the Fellowship.

National Finalists, Automate for Bank Hackathon, State Bank of India   2018
Ranked among the top 20 teams nationwide in the inaugural edition of the SBI Hackathon.